

## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED	INVENTOR		ATTORNEY DOCKET NO.
08/072,206	06/04/93	SCHWARTZ		R	INTT3POUS
				MANCUSO.	EXAMINER
WARREN A. 9	SKI VD	E6M1/0708			
	ro, Boisselle	E & SKLAR		ART UNIT	PAPER NUMBER
1621 EUCLII CLEVELAND,	O AVE, 19TH F OH 44115	FL.OOR		2616	18
				DATE MAILED:	Ø7/Ø8/96
This is a communication COMMISSIONER OF PA					
	riod for response to this	Responsive to communica action is set to expire will cause the application to	month(s),		This action is made final.
		RE PART OF THIS ACTION			
1. Notice of Refe	erences Cited by Examir	or PTO 992	2. Notic	no of Droftsman's Ro	itent Drawing Review, PTO-948.
3. Notice of Art	erences Cited by Examir Cited by Applicant, PTO- n How to Effect Drawing	-1449.			tent Drawing Review, PTO-948. Application, PTO-152.
Part II SUMMARY OF	ACTION / -	7//			_ are pending in the application.
Of the abo	ove, claims	4.0		are	withdrawn from consideration.
2, Claime		12		· · · · · · · · · · · · · · · · · · ·	_ have been cancelled.
3. Claims	<u> </u>	10			are allowed.
4. Claims	<u> </u>	9			_ are rejected.
5. Claims			-		_ are objected to.
6. Claims			ar	e subject to restriction	on or election requirement.
7. This application	has been filed with infor	mal drawings under 37 C.F.F	R. 1.85 which are	acceptable for exam	ination purposes.
8. Formal drawings	s are required in respons	e to this Office action.			
		ve been received on se explanation or Notice of D			
	dditional or substitute sh Isapproved by the examl	eet(s) of drawings, filed on _ ner (see explanation).	·	. has (have) been	□approved by the
11. The proposed dr	awing correction, filed _	, has	been 🗖 approv	red; □ disapproved	(see explanation).
		or priority under 35 U.S.C. 1			eceived  not been received
	, , ,	condition for allowance except arte Quayle, 1935 C.D. 11; 4		ers, prosecution as to	the merits is closed in
14 Other					

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- 1. This application is a rule 1.29(a) application and the previous after-final amendment and the amendment filed 4/8/96 (which includes the amendments in the after-final amendment) have been entered. Therefore, the pending claims are 1-11, with claims 1-5, 8-10 being the elected claims and claims 6, 7, and 11 being withdrawn as directed to a non-elected invention. It is further noted that claims 1-5, 8-10 were elected without traverse in paper number 11.
- 2. Applicant's remarks filed 4/8/96 (as well as in the after-final amendment) have been fully considered and, for at least the below rejected claims, were not found to be convincing. However, the 112 rejection is hereby withdrawn in view of applicant's amendments and remarks (though new ones are added below), as are the art rejections of claim 1-5, 8 and 10.
- 3. Claim 8 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 8, last paragraph, the recitation is directed to "determining a difference in the two measured heights" while the previous paragraph makes reference to "each contact point". However, the claim recitation as a whole is unclear as to exactly what these "two contact points" are. Are they where the probe contacts different contact or something else? This needs to be clarified. Further, the claim recites determining a difference

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which is "representative of the length of the probe tip" (last 2 lines and similar recitation in the preamble), but the claim is unclear as to exactly how this is actually being determined from the preceding claim recitation. In other words, the conclusion (determining the length of the probe tip) does not appear to result from the preceding claim recitation.

4. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

5. Claim 9 is again rejected under 35 U.S.C. § 103 as being unpatentable over the combination of Stewart et al. ('374) and Sato et al.

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The statements advanced in paragraph 4, of paper number 12, as to the applicability and disclosure of the references are incorporated herein.

With respect to applicant's remarks directed to this claim (9), while they have been fully considered, they are not found to be convincing. Firstly, the recitation in this claim is extremely broad (much broader than the recitation in the other independent claims) and the actual claim language is met by the references. Specifically, as to the rejection of claim 9 and the remarks on page 6 of the response, the references show the inspection of probe cards containing probes and determining various characteristics of the card. Both Stewart and Sato disclose determining the positions of the probes (see the Abstract of each reference) in addition to other characteristics. Since the references show determining the position of the probes, these position determining processes must be with respect to something (all measurements of position must be with respect to some reference, or the measurement is meaningless as it has no reference) and the obvious references are with respect to the object the probe is to come into contact with or with respect to the other probes being used (although any other reference frame that is available and relevant, such as a table or card holder (such as 72 and 80, respectively, in Stewart) can also clearly be used). With respect to applicant's remarks directed to the "accumulating a file of relative positions" as argued by applicant, firstly this argued limitation is slightly more narrow Serial Number: 08/072,206

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than the actual claim limitation. Further, the process of storing previous determinations of position for use in subsequent examinavery conventional operation (Official Notice). tions is a Specifically, it is well known to use previously determined information in subsequent processing. For example, in learning systems or for positioning systems which use the previously determined position as a start point for a subsequent start point. To one of ordinary skill in the art, it would have been obvious, at the time of the invention, to keep track (such as a file) of determined positions for future use because of the conventionality of such processes and because of the conventionality of this process for purposes such as calibration (if the determinations were not kept, it would be difficult, if not impossible, to determine how well the system was performing the determination) as well as various other operations.

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- 7. Claims 1-5, and 10 are allowed.
- 8. Claim 8 would be allowable if rewritten or amended to overcome the rejection under 35 U.S.C. § 112.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Mancuso whose telephone number is (703) 305-3885.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-8576.

The Art Unit 2613 Fax number is (703)-308-6606.

jm July 5, 1996

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